

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		4,824,775	04-25-1989	Dattagupta
		5,118,605	06-02-1992	Urdea
		5,174,962	12-29-1992	Brennan
		5,302,509	04-12-1994	Cheeseman
		5,599,675	02-04-1997	Brenner
		5,654,419	08-5-1997	Mathies
		5,728,528	03-17-1998	Mathies
		5,763,594	06-09-1998	Hiatt
		5,770,367	06-23-1998	Southern
		5,789,167	08-04-1998	Konrad
		5,804,386	09-08-1998	Ju
		5,808,045	09-15-1998	Hiatt
		5,814,454	10-29-1998	Ju
		5,843,203	11-10-1998	Katzir
		5,849,542	12-15-1998	Reeve et al.
		5,853,992	12-29-1998	Glazer
		5,869,255	02-09-1999	Mathies
		5,872,244	02-16-1999	Hiatt
		5,876,936	12-29-1999	Ju
		5,885,775	03-23-1999	Haff et al
		5,945,283	08-31-1999	Kwok
		5,952,180	09-14-1999	Ju
		6,028,190	02-22-2000	Mathies
		6,046,005	04-04-2000	Ju
		6,074,823	06-13-2000	Hubert
		6,136,543	10-24-2000	Anazawa et al.
		6,197,557	03-6-2001	Markarov et al.

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

Applicant: Jingyue Ju
Serial No.: 10/591,520
Filed: March 3, 2005
Exhibit A

Form PTO-1449		U.S. Department of Commerce		Application Number	10/591,520
		Patent and Trademark Office		Filing Date	March 3, 2005
				First Named Inventor	Jingyue Ju
				Art Unit	
				Examiner Name	
				Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		6,214,987	04-10-2001	Hiatt	
		6,218,118	04-17-2001	Sampson	
		6,232,465	05-15-2001	Hiatt	
		6,312,893	11-06-2001	Van Ness et al.	
		6,316,230	11-13-2001	Egholm	
		6,361,940	03-26-2002	Van Ness et al.	
		6,613,508	09-02-2003	Ness et al.	
		6,627,748	09-30-2003	Ju et al.	
		6,664,079	12-16-2003	Ju et al.	
		6,664,399	12-16-2003	Sebasan	
		7,074,597	07-11-2006	Ju	
		6,833,246	12-21-2004	Balasubramanian	
		7,057,026	06-06-2006	Barnes et al.	
		6,787,308	09-07-2004	Balasubramanian et al.	
		2002/0168642	11-14-2002	Drukier	
		2003/0008285	01-09-2003	Fischer	
		2003/0022225	01-30-2003	Montforte et al.	
		2003/0027140	02-06-2003	Ju et al.	
		2003/0044871	03-06-2003	Cutsforth et al.	
		2004/0185466	09-23-2004	Ju et al.	
		2005/0032031	02-10-2005	Ju et al.	
		2006/0057565	03-16-2006	Ju et al.	
		2006/0252938	11-09-2006	Sava et al.	
		2006/0003352	01-05-2006	Lipkin et al	

**EXAMINER
SIGNATURE**

DATE CONSIDERED

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT- US/JPW/BJA/ML

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

FOREIGN PATENT DOCUMENTS

Examiner Initials'	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		WO 91/06678	05-16-1991	Stanford Research Institute	
		WO 00/53805	09-14-2000		
		WO 01/92284	12-06-2001	Amersham Pharm. Biotech. Ltd.	
		WO 01/27625	04-19-2001	Leif et al.	
		WO 02/079519	10-10-2002	Ju et al.	
		WO 02/22883	03-21-2002	Ju et al.	
		WO 02/29003	04-11-2002	Ju et al.	
		WO 04/007773	01-22-2004	Ju	
		WO 04/055160	01-22-2004	Ju et al.	
		WO 05/084367	09-15-2005	Ju	
		WO 06/073436	07-13-2006	Lipkin et al.	
		WO 07/002204	01-04-2007	Ju et al.	
		EP 0992511	04-12-2000	Rapigne Inc.	
		WO 04/018497	03-04-2004	Solexa Limited	
		WO 04/018493	03-04-2004	Solexa Limited	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials'	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Axelrod, V. D. et al. (1978) Specific termination of RNA polymerase synthesis as a method of RNA and DNA sequencing. Nucleic Acids Res. 5(10):3549-3563	
		Badman, E. R. et al. (2000) A Parallel Miniature Cylindrical Ion Trap Array. Anal. Chem. 72:3291-3297	
		Badman, E. R. et al. (2000) Cylindrical Ion Trap Array with Mass Selection by Variation in Trap Dimensions. Anal. Chem. 72:5079-5086	

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT- US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Benson, S. C., Mathies, R. A. and Glazer, A. N. (1993) Heterodimeric DNA-binding dyes designed for energy transfer: stability and applications of the DNA complexes. <i>Nucleic Acids Res.</i> 21:5720-5726	
		Benson, S. C., Singh, P. and Glazer, A. N. (1993) Heterodimeric DNA-binding dyes designed for energy transfer: synthesis and spectroscopic properties. <i>Nucleic Acids Res.</i> 21:5727-5735	
		Burgess, K. et al. (1997) Photolytic Mass Laddering for Fast Characterization of Oligomers on Single Resin Beads. <i>J. Org. Chem.</i> 62:5662-5663	
		Canard, B. et al. (1995) Catalytic editing properties of DNA polymerases. <i>Proc. Natl. Acad. Sci. USA</i> 92:10859-10863	
		Caruthers, M. H. (1985) Gene synthesis machines: DNA chemistry and its uses. <i>Science</i> 230:281-285	
		Chee, M. et al. (1996) Accessing genetic information with high-density DNA arrays. <i>Science</i> 274:610-614	
		Chen, X. and Kwok, P.-Y. (1997) Template-directed dye-terminator incorporation (TDI) assay: a homogeneous DNA diagnostic method based on fluorescence resonance energy transfer. <i>Nucleic Acids Res.</i> 25:347-353	
		Edwards, J. et al. (2001) DNA sequencing using biotinylated dideoxynucleotides and mass spectrometry. <i>Nucleic Acids Res.</i> 29(21):e104	
		Griffin, T. J. et al. (1999) Direct Genetic Analysis by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Proc. Nat. Acad. Sci. USA</i> 96:6301-6306	

EXAMINER
SIGNATURE

DATE CONSIDERED

¹EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Hacia, J. G., Edgemon, K., Sun, B., Stern, D., Fodor, S. A., and Collins, F.S. (1998) Two Color Hybridization Analysis Using High Density Oligonucleotide Arrays and Energy Transfer Dyes. <i>Nucleic Acids Res.</i> 26:3865-6	
		Hyman, E. D. (1988) A new method of sequencing DNA. <i>Analytical Biochemistry</i> 174:423-436	
		Ireland, R. E. and Varney M. D. (1986) Approach to the total synthesis of chlorothricolide - synthesis of (+/-)-19,20-dihydro-24-O-methylchlorothricolide, methyl-ester,ethyl carbonate. <i>J. Org. Chem.</i> 51: 635-648	
		Jiang-Baucom, P. et al. (1997) DNA Typing of Human Leukocyte Antigen Sequence Polymorphisms by Peptide Nucleic Acid Probes and MALDI-TOF Mass Spectrometry. <i>Anal. Chem.</i> 69:4894-4896	
		Ju, J., Glazer, A. N. and Mathies, R. A. (1996) Energy transfer primers: A new fluorescence labeling paradigm for DNA sequencing and analysis. <i>Nature Medicine</i> 2:246-249	
		Ju, J., Ruan, C., Fuller, C. W., Glazer, A. N. and Mathies, R. A. (1995) Fluorescence energy transfer dye-labeled primers for DNA sequencing and analysis. <i>Proc. Natl. Acad. Sci. USA</i> 92:4347-4351	
		Kamal, A., Laxman, E., and Rao, N. V. (1999) A mild and rapid regeneration of alcohols from their allylic ethers by chlorotrimethylsilane/sodium iodide. <i>Tetrahedron Lett.</i> 40: 371-372	
		Lee, L. G. et al. (1992) DNA sequencing with dye-labeled terminators and T7 DNA polymerase: effect of dyes and dNTPs on incorporation of dye terminators and probability analysis of termination fragments. <i>Nucleic Acids Res.</i> 20:2471-2483	

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT- US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Lee, L. G. et al. (1997) New energy transfer dyes for DNA Sequencing. <i>Nucleic Acids Res.</i> 25:2816-2822	
		Li, J. (1999) Single Oligonucleotide Polymorphism Determination Using Primer Extension and Time-of-Flight Mass Spectrometry. <i>Electrophoresis</i> , 20:1258-1265	
		Liu, H. et al. (2000) Development of Multichannel Devices with an Array of Electrospray Tips for High-Throughput Mass Spectrometry. <i>Anal. Chem.</i> 72:3303-3310	
		Lyamichev, A. et al. (1999) Polymorphism Identification and Quantitative Detection of Genomic DNA by Invasive Cleavage of Oligonucleotide Probes. <i>Nat. Biotech.</i> 17:292-296	
		Metzker, M. L., et al. (1994) Termination of DNA synthesis by novel 3'-modified deoxyribonucleoside 5'-triphosphates. <i>Nucleic Acids Res.</i> 22:4259-4267	
		Olejnik, J., et al. (1995) Photocleavable biotin derivatives: a versatile approach for the isolation of biomolecules. <i>Proc. Natl. Acad. Sci. USA.</i> 92:7590-7594	
		Pelletier, H., Sawaya, M. R., Kumar, A., Wilson, S. H., and Kraut J. (1994) Structures of ternary complexes of rat DNA polymerase β , a DNA template-primer, and ddCTP. <i>Science</i> 264:1891-1903	
		Prober, J. M., Trainor, G. L., Dam, R. J., Hobbs, F. W., Robertson, C. W., Zagursky, R. J., Cocuzza, A. J., Jensen, M. A., Baumeister K. (1987) A system for rapid DNA sequencing with fluorescent chain-terminating dideoxynucleotides. <i>Science</i> 238:336-341	

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Ronaghi, M., Uhlen, M., and Nyren, P. (1998) A sequencing Method based on real-time pyrophosphate. <i>Science</i> 281:364-365	
		Rosenblum, B. B. et al. (1997) New dye-labeled terminators for improved DNA sequencing patterns. <i>Nucleic Acids Res.</i> 25:4500-4504	
		Ross, P. et al. (1998) High Level Multiplex Genotyping by MALDI-TOF Mass Spectrometry. <i>Nat. Biotech.</i> 16:1347-1351	
		Ross, P. L. et al. (1997) Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry. <i>Anal. Chem.</i> 69:4197-4202	
		Saxon, E. and Bertozzi, C. R. (2000) Cell surface engineering by a modified Staudinger reaction. <i>Science</i> 287:2007-2010	
		Schena, M., Shalon, D., Davis, R., and Brown, P. O. (1995) Quantitative monitoring of gene expression patterns with a complementary DNA microarray. <i>Science</i> 270:467-470	
		Speicher, M. R., Ballard, S. G. and Ward, D. C., (1996) "Karyotyping human chromosomes by combinatorial multi-fluor FISH". <i>Nature Genetics</i> 12:368-375	
		Stoerker, J. et al. (2000) Rapid Genotyping by MALDI-monitored nuclease selection from probe libraries. <i>Nat. Biotech.</i> 18:1213-1216	
		Welch, M. B., and Burgess, K. (1999) Synthesis of fluorescent, photolabile 3'-O-protected nucleoside triphosphates for the base addition sequencing scheme. <i>Nucleosides and Nucleotides</i> 18:197-201	

EXAMINER
SIGNATURE

DATE CONSIDERED

¹EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Woolley, A. T. et al. (1997) High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips. <i>Anal. Chem.</i> 69:2181-2186	
		Fei, Z. et al. (1998) MALDI-TOF mass spectrometric typing of single nucleotide polymorphisms with mass-tagged ddNTPs. <i>Nucleic Acids Research</i> 26(11):2827-2828	
		Olejnik, J. et al. (1999) Photocleavable peptide-DNA conjugates: synthesis and applications to DNA analysis using MALDI-MS. <i>Nucleic Acids Res.</i> 27(23):4626-4631	
		Arbo, et al. (1993) Solid Phase Synthesis of Protected Peptides Using New Cobalt (III) Amine Linkers, <i>Int. J. Peptide Protein Res.</i> 42:138-154	
		Chiu, N.H., Tang, K., Yip, P., Braun, A., Koster, H., and Cantor C.R. (2000) Mass spectrometry of single-stranded restriction fragments captured by an undigested complementary sequence. <i>Nucleic Acids Res.</i> 28:E31	
		Fu, D. J., Tang, K., Braun, A., Reuter, D., Darnhofer-Demar, B., Little D. P., O'Donnell, M. J., Cantor, C.R., and Koster, (1998) Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry. <i>Nat. Biotechnol.</i> 16:381-384	
		Monforte, J. A., and Becker, C. H. (1997) High-throughput DNA analysis by time-of-flight mass spectrometry. <i>Nat. Med.</i> 3 (3) :360-362	
		Roskey, M. T., Juhasz P., Smirnov, I. P., Takach, E.J., and Martin, S.A. (1996) Haff L.A., DNA sequencing by delayed extraction-matrix-assisted laser desorption/ionization time of flight mass spectrometry. <i>Proc. Natl. Acad. Sci. USA.</i> 93:4724-4729	

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. ²
		Tang, K., Fu, D. J., Julien, D., Braun, A., Cantor, C. R., and Koster H. (1999) Chip-based genotyping by mass spectrometry. <i>Proc. Natl. Acad. Sci. USA.</i> 96:10016-10020
		Tong, X. and Smith L. M. (1992) Solid-Phase Method for the Purification of DNA Sequencing Reactions. <i>Anal. Chem.</i> 64: 2672-2677
		Jurinke, C., van de Boom, D., Collazo, V., Luchow, A., Jacob, A, Koster, H., (1997) Recovery of nucleic acids from immobilized biotin-streptavidin complexes using ammonium hydroxide and application in MALDI-TOF mass spectrometry. <i>Anal. Chem.</i> 69:904-910
		Jingyue Ju, et al., (1996) "Cassette labeling for facile construction of energy transfer fluorescent primers", <i>Nuc. Acids Res.</i> 24(6):1144-1148
		Bergeid M., Baytan A.R., Wiley J.P., Ankener W.M., Stolowitz, Hughs K.A., Chestnut J.D., (2000) "Small-molecule base chemical affinity system for the purification of proteins", <i>BioTechniques</i> 29:1126-1133
		Hultman et al., (1989) "Direct Solid Phase Sequencing of Genomic and Plasmid DNA Using Magnetic Beads as Solid Support", <i>Nucleic Acids Research</i> , 17(3):4937-4946
		Buschmann et al., (1999) "The Complex Formation of α, ω -Dicarboxylic Acids and α, ω -Diols with Cucurbituril and α -Cyclodextrin", <i>Acta Chim. Slov.</i> 46(3):405-411
		Kolb et al., (2001) "Click Chemistry: Diverse Chemical Function From a Few Good Reactions", <i>Angew. Chem. Int. Ed.</i> 40:2004-2021

EXAMINER
SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Lewis et al., (2002) "Click Chemistry in Situ: Acetylcholinesterase as a Reaction Vessel for the Selective Assembly of a Femtomolar Inhibitor from an Array of Building Blocks", Angew. Chem. Int. Ed., 41(6):1053-1057	
		Seo et al., (2003) "Click Chemistry to Construct Fluorescent Oligonucleotides for DNA Sequencing", J. Org. Chem. 68:609-612	
		Fallahpour, (2000) "Photochemical and Thermal reactions of Azido-Oligopyridines: Diazepinones, a New Class of Metal-Complex Ligands", Helvetica Chimica Acta. 83:384-393	
		Ikeda, K. et al., (1995) "A Non-Radioactive DNA Sequencing Method Using Biotinylated Dideoxynucleoside Triphosphates and Delta TTH DNA Polymerase" DNA Research, 2(31):225-227	
		Kim Sabin et al., (2002) "Solid Phase Capturable Dideoxynucleotides for Multiplex Genotyping Using Mass Spectrometry" Nucleic Acids Research, 30(16):e85.1-e85.6	
		Wendy S Jen, John J.M. Wiener, and David W.C. MacMillan, (2000) "New Strategies for Organic Catalysis: The First Enantioselective Organcocatalytic 1,3-Dipolar Cycloaddition" J. Am. Chem. Soc., 122, 9874-9875	
		Supplementary European Search Report issued February 16, 2004 in connection with European Patent Application No. 01 97 7533	
		Supplementary European Search Report issued February 9, 2007 in connection with European Patent Application No. 03 76 4568.6	
		Supplementary European Search Report issued May 25, 2005 in connection with European Patent Application No. 02 72 8606.1	

EXAMINER SIGNATURE	DATE CONSIDERED
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Applicant is to place a checkmark here if English language Translation is attached.	

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Application Number	10/591,520
Filing Date	March 3, 2005
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML

NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. ²	T ²
		Supplementary European Search Report issued June 7, 2005 in connection with European Patent Application No. 01 96 3905	
		International Preliminary Examination Report issued on 3/18/05 in connection with PCT/US03/21818	
		International Preliminary Examination Report issued on 4/3/03 in connection with PCT/US01/31243	
		International Preliminary Examination Report issued on 2/25/03 in connection with PCT/US01/28967	
		International Preliminary Examination Report issued on 3/17/03 in connection with PCT/US02/09752	
		International Preliminary Report on Patentability issued on 9/5/06 in connection with PCT/US05/006960	
		International Search Report issued 5/13/02 in connection with PCT/US01/31243	
		International Search Report issued 1/23/02 in connection with PCT/US01/28967	
		International Search Report issued 9/18/02 in connection with PCT/US02/09752	
		International Search Report issued 9/26/03 in connection with PCT/US03/21818	
		International Search Report issued 6/8/04 in connection with PCT/US03/39354	
		International Search Report issued 11/4/05 in connection with PCT/US05/06960	
		International Search Report issued 12/15/06 in connection with PCT/US05/13883	

EXAMINER
SIGNATURE

DATE CONSIDERED

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449		U.S. Department of Commerce	Application Number	10/591,520
		Patent and Trademark Office	Filing Date	March 3, 2005
			First Named Inventor	Jingyue Ju
			Art Unit	
			Examiner Name	
			Attorney Docket No.	72067-A-PCT-US/JPW/BJA/ML
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Written Opinion of the International Searching Authority issued 10/27/05 in connection with PCT/US05/06960	
		Written Opinion of the International Searching Authority issued 12/15/06 in connection with PCT/US05/13883	
		Elango, N. et al. (1983) "Amino Acid Sequence of Human Respiratory Syncytial Virus Nucleocapsid Protein" Nucleic Acids Research, 11(17):5941-5951	
		Buck, G.A. et al. (1999) "Design Strategies and Performance of Custom DNA Sequencing Primers", BioTechniques, 27(3):528-536	
		Hafliger, D. et al. (1997) "Semineested RT-PCR Systems for Small Round Structured Viruses and Detection of Enteric Viruses in Seafood", International Journal of Food Microbiology, 37:27-36	
		Leroy, E.M. et al. (2000) "Diagnosis of Ebola Haemorrhagic Fever by RT-PCR in an Epidemic Setting", Journal of Medical Virology, 60:463-467	
		Kokoris, M. et al. (2000) "High-throughput SNP Genotyping With the Masscode System", Molecular Diagnosis, 5(4):329-340	
		Kim, S. et al. (2003) "Multiplex Genotyping of the Human β 2-adrenergic Receptor Gene Using Solid-phase Capturable Dideoxynucleotides and Mass Spectrometry", Analytical Biochemistry, 316:251-258	
		Haff, L. A. et al. (1997) Multiplex Genotyping of PCR Products with Mass Tag-Labeled Primers. Nucleic Acids Res. 25(18):3749-3750	

EXAMINER SIGNATURE	DATE CONSIDERED
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.</p>	

Form PTO-1449 Substitute		U.S. Department of Commerce Patent and Trademark Office			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		7,057,031 B2	06-06-2006	Olejnik et al.	
		6,210,891	04-03-2001	Nyren et al	
		6,087,095	07-12-2000	Rosenthal et al.	
		4,711,955	12-08-1987	Ward et al.	
		2002-0190680	10-09-2003	Rothschild et al.	
		2002-0012966	01-31-2002	Shi et al.	
		2003-0054360 A1	03-20-2003	Gold et al.	
		2003-0198982 A1	10-23-2003	Seela et al.	
		2003-0166282 A1	09-04-2003	Brown et al.	
		2005-0239194 A1	10-27-2005	Gorenstein et al.	
		2006-0105461 A1	05-18-2006	Tom-Moy et al.	
		2006-0240439	10-26-2006	Smith et al.	
		2007-0275387 A1	11-29-2007	Ju et al.	
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
	1	WO/2008/069973	06-12-2008	Ju et al.	
	2	WO/2007/053702	05-10-2007	Ju et al.	
	3	WO/2007/053719	05-10-2007	Ju et al.	
	5	WO/2007/062105	05-31-2007	Ju et al.	
	45	WO/2004/018497	04-04-2004	Milton et al.	
	4	WO/1992/10587	06-25-1992	Dower et al.	
EXAMINER SIGNATURE			DATE CONSIDERED		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.					

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See .Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

**Applicants: Jingyue Ju
Serial No.: 10/591,520
Filed: June 4, 2007
Exhibit C**

Form PTO-1449 Substitute		U.S. Department of Commerce	Application Number	10/591,520
		Patent and Trademark Office	Filing Date	June 4, 2007
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		First Named Inventor	Jingyue Ju	
		Art Unit	1637	
		Examiner Name	J. Riley	
		Attorney Docket No.	72067-A-PCT-US/ JPW/BJA/LCM	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6	Extended European Search Report issued July 18, 2007 in connection with European Patent Application No. 07004522.4	
	7	Partial European Search Report issued April 26, 2007 in connection with European Patent Application No. 07004522.4	
	8	Kraevskii, A.A. et al., (1987), Substrate Inhibitors of DNA Biosynthesis, Molecular Biology, 21:25-29	
	9	Henner, W.D. et al., (1983), Enzyme Action at 3' Termini of Ionizing Radiation-Induced DNA Strand Breaks, J. Biol. Chem. 258 (24):15198-15205	
	10	Office Action issued October 25, 2002 in connection with U.S. Serial No. 09/972,364	
	11	Office Action issued March 14, 2003 in connection with U.S. Serial No. 09/972,364	
	12	Office Action issued August 10, 2007 in connection with U.S. Serial No. 11/119,231	
	13	Office Action issued September 21, 2007 in connection with U.S. Serial No. 10/380,256	
	14	Notice of Allowance issued September 6, 2007 in connection with U.S. 10/702,203	
	15	Restriction Requirement issued in connection with U.S. 10/521,206	
	16	Office Action issued November 14, 2007 in connection with U.S. 10/735,081	
	17	Official Action issued May 21, 2007 in connection with European Patent Application No. 01968905.8	
	18	Official Action issued March 31, 2006 in connection with European Patent Application No. 01968905.8	

EXAMINER SIGNATURE**DATE CONSIDERED**

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449 Substitute		U.S. Department of Commerce Patent and Trademark Office	Application Number 10/591,520
		Filing Date June 4, 2007	
		First Named Inventor Jingyue Ju	
		Art Unit 1637	
		Examiner Name J. Riley	
		Attorney Docket No. 72067-A-PCT-US/ JPW/BJA/LCM	

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	19	Tuncel et al. (1999) Catalytically Self-Threading Polyrotaxanes, Chem. Comm. 1509-1510	
	20	Notification of Transmittal of International Search Report and Written Opinion, issued November 23, 2007	
	21	Meng et al., (2006), Design and Synthesis of a Photocleavable Fluorescent Nucleotide 3'-O-Allyl-dGTP-PC-Biodipy-FL-510 as a Reversible Terminator for DNA Sequencing by Synthesis, J. Org. Chem 71:3248-3252	
	22	Li et al., (2003), A photocleavable Fluorescent Nucleotide for DNA Sequencing and Analysis, PNAS, 100(2):414-419	
	23	Seo et al., (2004), Photocleavable Fluorescent Nucleotides for DNA Sequencing on a Chip Constructed by Site-Specific Coupling Chemistry, PNAS 101(15):5488-5493	
	24	Seo et al., (2004), Four-Color DNA Sequencing by Synthesis on a Chip Using Photocleavable Fluorescent Nucleotides, PNAS 102(17):5926-5931	
	25	Ruparel et al., (2005), Design and Synthesis of a 3'-O-Allyl Photocleavable Fluorescent Nucleotide as a Reversible Terminator for DNA Sequencing by Synthesis, PNAS, 102(17):5932-5937	
	26	International Search Report issued October 29, 2007 in connection with PCT International Application No. PCT/US 07/13559	
	27	U.S. Serial No. 11/894,808, filed August 20, 2007	
	28	U.S. Serial No. 11/894,690, filed August 20, 2007	
	29	U.S. Serial No. 11/810,509, filed June 5, 2007	

**EXAMINER
SIGNATURE**

DATE CONSIDERED

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449 Substitute		U.S. Department of Commerce	Application Number	10/591,520
		Patent and Trademark Office	Filing Date	June 4, 2007
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		First Named Inventor	Jingyue Ju	
		Art Unit	1637	
		Examiner Name	J. Riley	
		Attorney Docket No.	72067-A-PCT-US/ JPW/BJA/LCM	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	30	U.S. Serial No. 09/684,670, filed October 6, 2000, Ju et al.	
	31	U.S. Serial No. 12/085,343, filed May 19, 2008	
	32	Official Action issued March 14, 2008 in connection with European Patent Application No. 07004522.4	
	33	Office Action issued June 24, 2008 in connection with U.S. Serial No. 11/894,690	
	34	Office Action issued July 8, 2008 in connection with U.S. Serial No. 10/591,520	
	35	Notification of Transmittal of International Search Report and Written Opinion, issued February 6, 2008 in connection with International Application No. PCT/US06/42739	
	36	Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability (Including Written Opinion of the International Searching Authority) issued May 15, 2008 in connection with PCT/US2006/042698	
	37	Notification of Transmittal the International Search Report and Written Opinion, issued May 22, 2008 in connection with International Application No. PCT/US06/45180	
	38	Notification of Transmittal the International Search Report and Written Opinion, issued August 16, 2008 in connection with International Application No. PCT/US07/24646	

EXAMINER SIGNATURE**DATE CONSIDERED**

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449 Substitute		U.S. Department of Commerce	Application Number	10/591,520
		Patent and Trademark Office	Filing Date	June 4, 2007
			First Named Inventor	Jingyue Ju
			Art Unit	1637
			Examiner Name	J. Riley
			Attorney Docket No.	72067-A-PCT-US/ JPW/BJA/LCM
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	39	Bai et al. (2003) "Photocleavage of a 2-nitrobenzyl linker bridging a fluorophore to the 5' end of DNA," PNAS, Vol. 100, No. 2, pages 409-413	
	40	Nielsen et al. (2004) "Multiplexed sandwich assays in microarray format," Journal of Immunological Methods, Vol. 290, pages 107-120	
	41	Zhang et al. (2002) "Synthesis of Releasable Electrophore Tags for Applications in Mass Spectrometry," Bioconjugate Chem, Vol. 13, pages 1002-1012	
	42	September 3, 2008 Office Action issued in connection with U.S. Serial No. 11/894,808	
	43	Nickel W, et al. (1992) "Interactions of azidothymidine triphosphate with the cellular DNA polymerases alpha, delta, and epsilon and with DNA primase". Journal of Biological Chemistry. 267(2):848-854	
	44	Notification of Transmittal the International Search Report and Written Opinion, issued September 9, 2008 in connection with International Application No.PCT/US06/24157	
	45	Hanshaw et al. (2004) "An Indicator displacement system for fluorescent detection of phosphate oxyanions under physiological conditions" Tetrahedron Letters, Vol. 45, pages 8721-8724	
	46	U.S. Serial No. 12/084,338 filed April 28, 2008	
	47	Official Action issued March 3, 2007 in connection with European Patent Application No. 07004522.4	
	48	U.S. Serial No. 11/922,385, filed December 14, 2007	

EXAMINER SIGNATURE	DATE CONSIDERED
---------------------------	------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.